

Western Market and Infrastructure Assessment

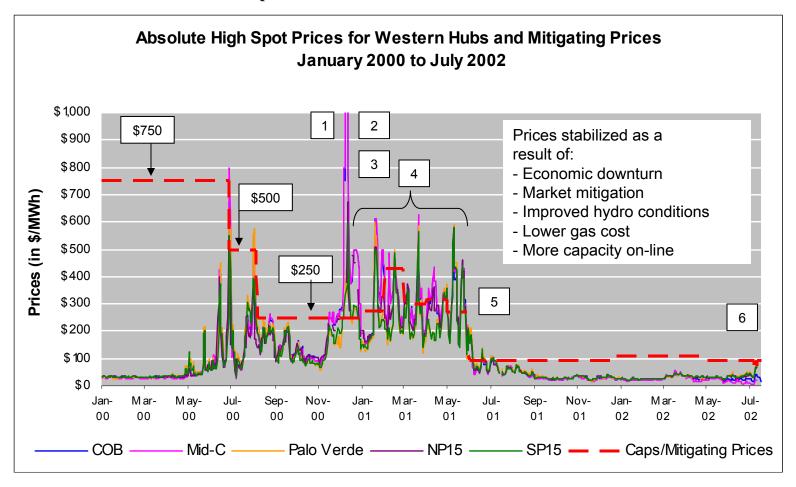
FACTORS AFFECTING ELECTRIC AVAILABILITY AND PRICES

July 2002

Western Electric & Natural Gas Prices

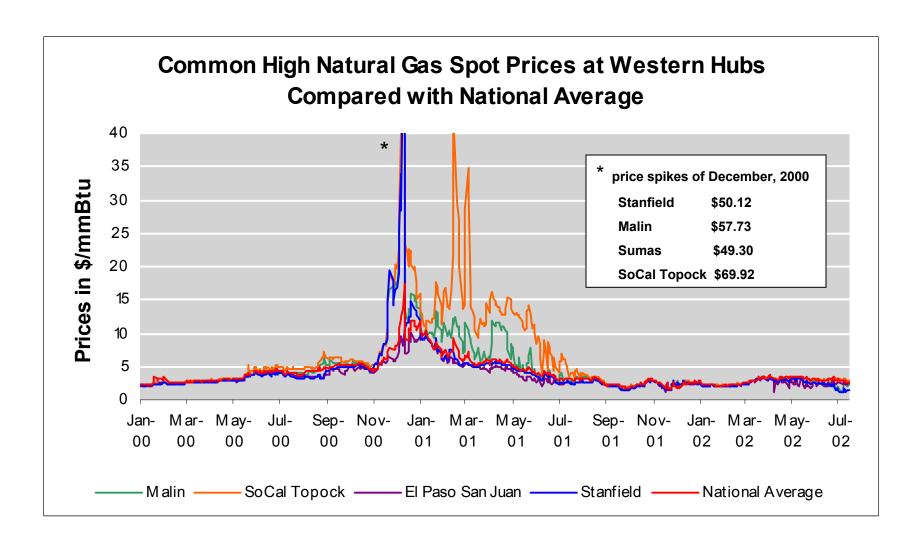
- Consumption & economic growth outpaced new supply from 1995 - 2000.
- Electric and natural gas prices skyrocketed across the West from May 2000 through May 2001.
- Electric and natural gas prices have declined and stabilized since July 2001, due to economic slowdown, conservation programs, long-term contracts for electricity, and FERC's mitigation measures.

Western states electric prices have fallen and stabilized in the short-term



- 1. On December 11, 2000, electric spot prices soared to \$3000 at COB and \$5000 at Mid-C.
- 2. CAISO \$250 breakpoint, December 8 through December 31, 2000.
- 3. FERC \$150 breakpoint, January 1 through May 28, 2001.
- FERC established ceiling price for Stage Three Emergency on March 9, 2001:
 \$273 for January, \$430 for February, \$300 for March, \$318 for April and \$267 for May, 2001.
- 5. Price mitigation in effect for California only during reserve deficiency hours, May 29 through June 19, 2001. \$108 triggered on May 30, 2001. Non-emergency price at \$91.87, which is 85% of price declared during last Stage One Emergency. Westwide Price Mitigation began on June 20, 2001.
- 6. On July 9, 2002, the CAISO issued a Stage One alert and dropped the cap to \$57.14/MWh. Price cap was reset at \$55.26 on July 10 triggered by a Stage Two. On July 11, 2002, the FERC restored the cap to its previous level of \$91.87/MWh and fixed it as a "hard cap".

Natural gas prices have stabilized in the short term



Source: Gas Daily

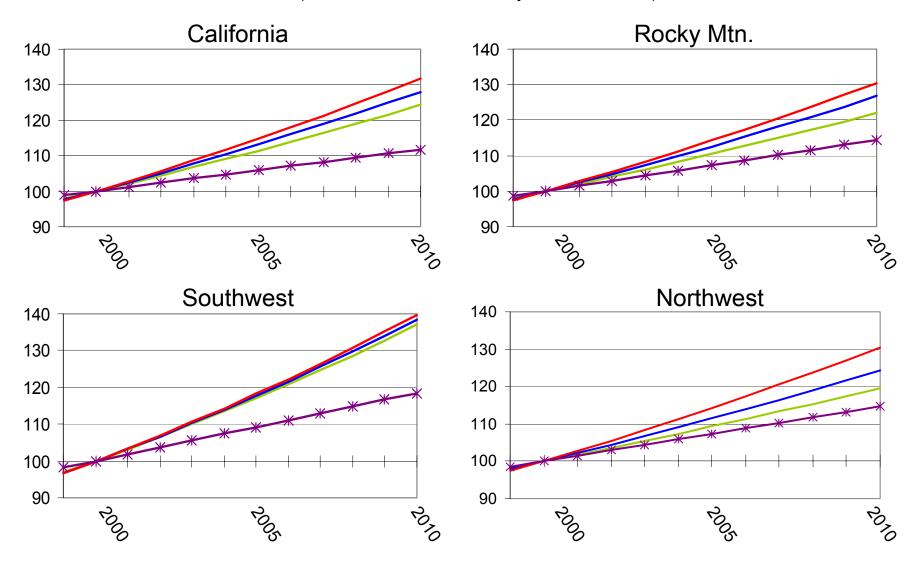
KEY FACTORS AFFECTING WESTERN ELECTRIC MARKETS

Factor 1: Peak Demand and Demand Response

- California relies on imports to meet peak demand, during the past five years California has imported up to 20% of the states energy needs.
- Electric demand growth in regions bordering California has grown significantly, reducing the amount of electricity available to export to California.
- Demand response programs were important in avoiding blackouts in California in 2001, reducing peak demand by 10-15%. However, frequent interruptions in supply have reduced participation in these programs. Conservation and demand response programs in the remainder of the West are minimal.
- Return of El Nino will moderate temperatures in California and the Northwest, but could reduce regional hydroelectric supply.

Electricity consumption grows at a faster rate than population

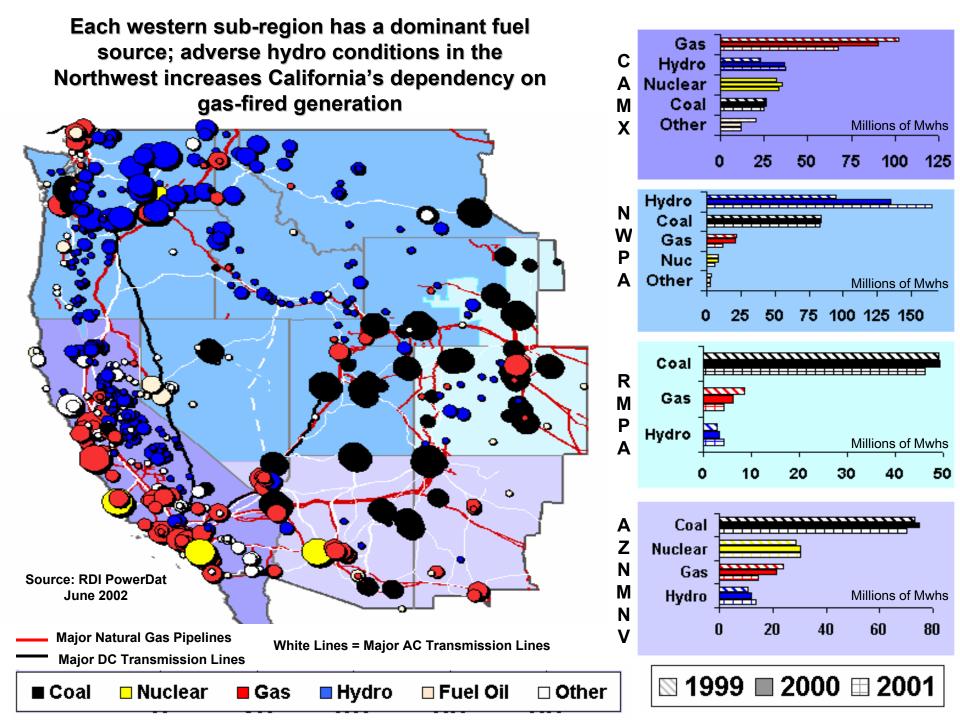
(All data are indexes, with year 2000 = 100)



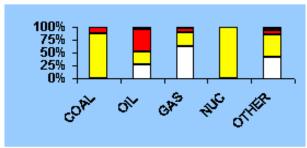
Retail Electric Sales Growth Estimates — Low — Medium — High; — Population Growth Estimate Sources: retail electric sales from EIA; sales growth rates from DRI-WEFA and NERC; population from US Census Bureau

Factor 2: Generation Capacity, Availability, and Hydro Vulnerability

- Older fossil fuel units are less cost-effective and experience frequent outages for maintenance, which reduces reliability. Consequently, these units contribute to increased prices through higher fuel costs and loss of availability due to frequent scheduled and unscheduled outages.
- Loss of large baseload units can trigger price volatility.
- The incentive to build new generation is diminishing since low prices and spark spreads indicate lower returns.
- Regulatory and environmental restrictions limit plant running times, siting locations, and output.
- Hydro generation and the amount available for export to California varies greatly.
- Weather uncertainties have compounded as El Nino conditions develop. Based on historical trends, the Pacific NW is expected to be drier than normal, California is expected to be warmer and wetter, and the Rockies and SW drier. The two recent El Ninos have lasted two years.



AGE OF NON-HYDRO ELECTRIC PLANTS



NWPA

Fuel Type	<10	10 to 30	30 to 50	>50	Total
COAL	64	10,772	1,608	66	12,510
OIL	57	50	87	11	205
GAS	3,889	1,649	508	78	6,123
NUC	0	1,200	0	0	1,200
OTHER	648	688	134	82	1,551
TOTAL	4,658	14,359	2,337	236	21,590
% of Total	22%	66%	11%	1%	100%

CAMX

10 to 30

2,153

9,941

4,555

5,201

22,566

30 to 50

1,660

694

179

19,192

41%

16,659

>50

236

266

Total

3,813

31,546

4,555

6,010

47,374

99%

100% 75% 50% 25% 0%

<10

4,710

630

5,349

11%

Fuel Type

COAL

OIL

GAS

NUC

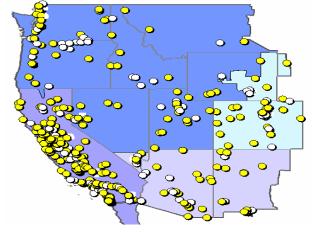
OTHER

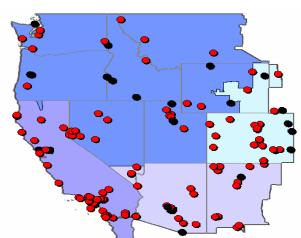
TOTAL

% of Total

otal (2,510

The West-particularly California
has many older fossil plants
with lower efficiency rates &
operational reliability
0

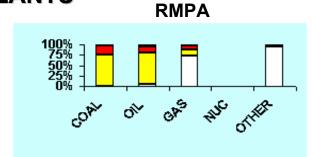




Tables reflect fuel types in megawatts

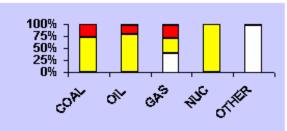
☐ Less Than 10 ☐ 10 to 30 ☐ 30 to 50 ☐ More Than 50

Source: RDI PowerDat June 2002



Fuel Type	<10	10 to 30	30 to 50	>50	Total
COAL	80	5,357	1,552	164	7,153
OIL	12	206	44	11	273
GAS	2,072	418	260	65	2,815
NUC	0	0	0	0	0
OTHER	212	8	0	0	221
TOTAL	2,377	5,988	1,856	240	10,461
% of Total	23%	57%	18%	2%	100%

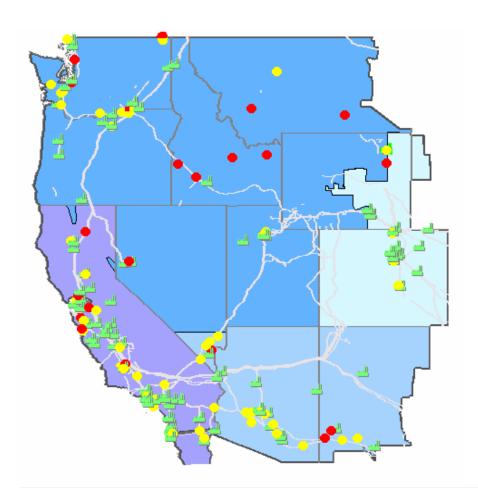
AZNMNV

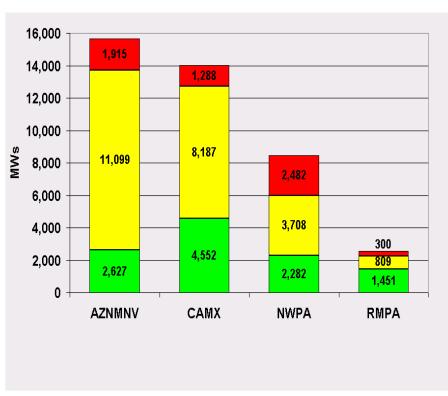


uel Type	<10	10 to 30	30 to 50	>50	Total
OAL	0	7,910	2,828	0	10,739
)IL	0	173	42	4	219
AS AS	3,773	3,108	2,637	186	9,704
IUC	0	4,210	0	0	4,210
)THER	27	0	0	0	28
TOTAL	3,800	15,401	5,507	190	24,898
% of Total	15%	62%	22%	1%	100%

95% of the new generation entering western markets will be fueled by natural gas



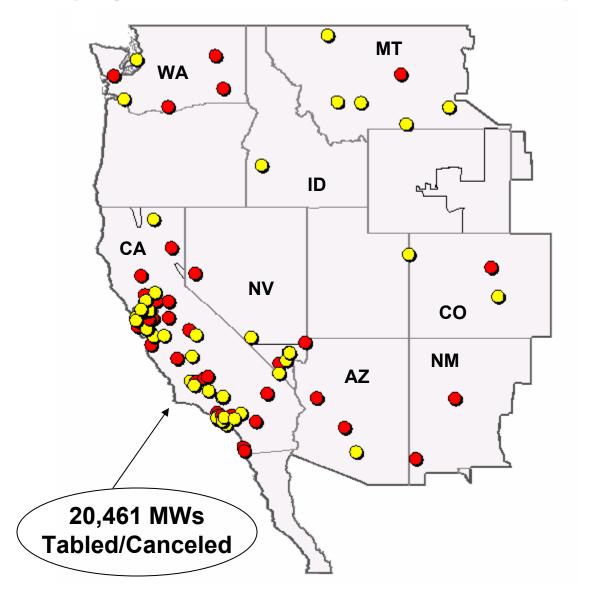




- Advanced Development 2002-2005
- Under Construction 2002-2005
- Additions Jan 2000- May 2002

Source: RDI NewGEN and PowerDat June 2002

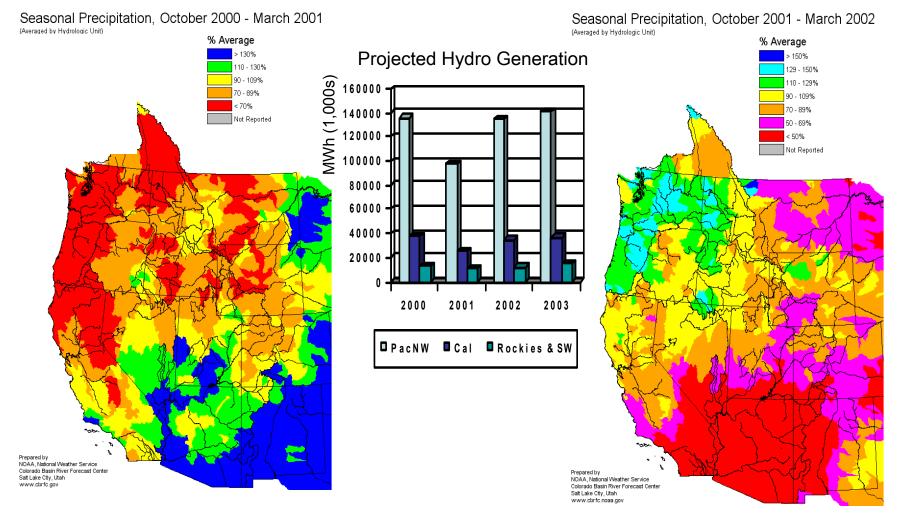
Lower spark spread outlooks, thinner profit margins, and industry uncertainty diminish the incentive to build new power plants. Many projects have been tabled or canceled particularly in California



STATUS	YEAR	TOTAL (MWs)
Tabled	2000 2001 2002 Total	1,403 8,732 14,363 24,498
Canceled	2000 2001 2002 Total	1,042 9,752 4,797 15,591
Total Tabled & Canceled	All	40,089

Source: RDI NewGEN June 2002

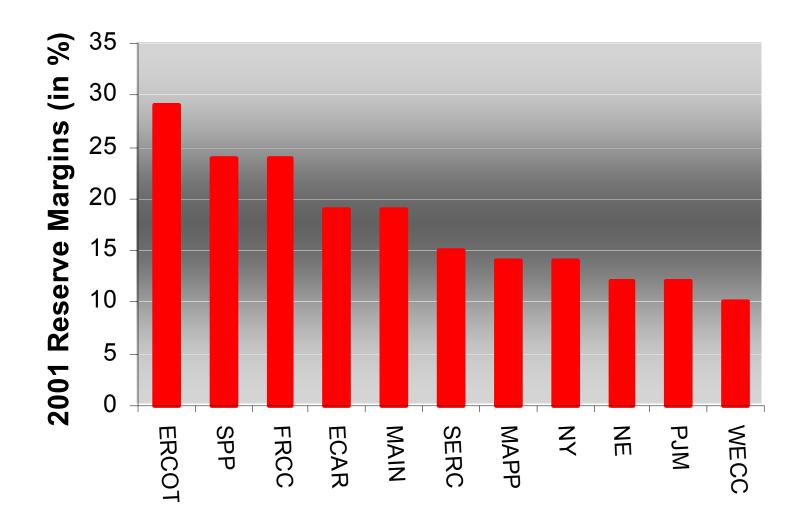
Hydropower availability has improved for California and the Pacific Northwest, but the drought has shifted to the Southwest and the Rockies. Columbia River headwater reservoir levels remain below normal, providing little reserve if drought returns.

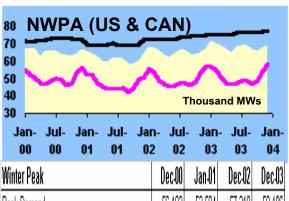


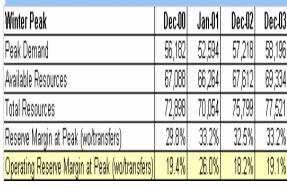
Factor 3: Reserve Margin

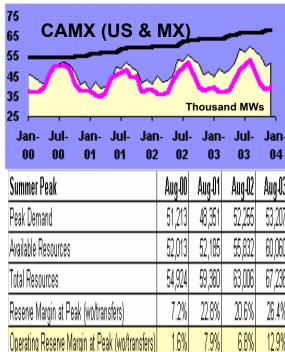
- Adequate reserve margins maintain reliability and foster competition. Low reserve margins send signals to build infrastructure.
- Significant variations in regional reserve margins signals the need for additional transmission.
- California and the Pacific Northwest's reserve margins will continue to be heavily influenced by variations in hydro availability and import limits.
- Operating reserves are dependent on accurate data inputs (i.e., deratings for fossil generation, outages, and timely demand data, including accurate DSM estimates).
- WECC reserve margins are the lowest in NERC.

WECC Reserve Margins are among the lowest in the country

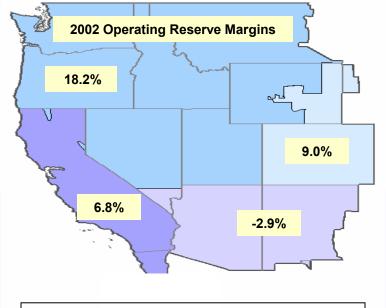








Generating adequacy varies by sub-region; CAMX, AZNMNV, & RMPA face continuing tight operating reserve margins through 2002

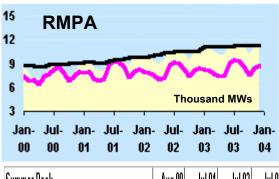


Operating Reserve Margin: difference between available capacity (excluding transfers) and peak demand

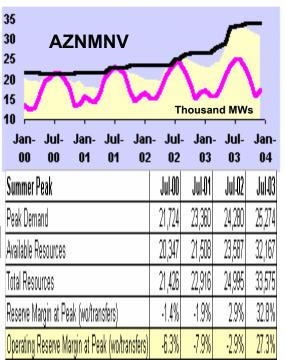
Reserve Margin: difference between total resources (excluding transfers) and peak demand

— Total Resources — Available Resources — Peak Demand

Source: Western Electricity Coordinating Council 2001-2002 Load & Resource Reports and RDI PowerDat & NewGen June 2002



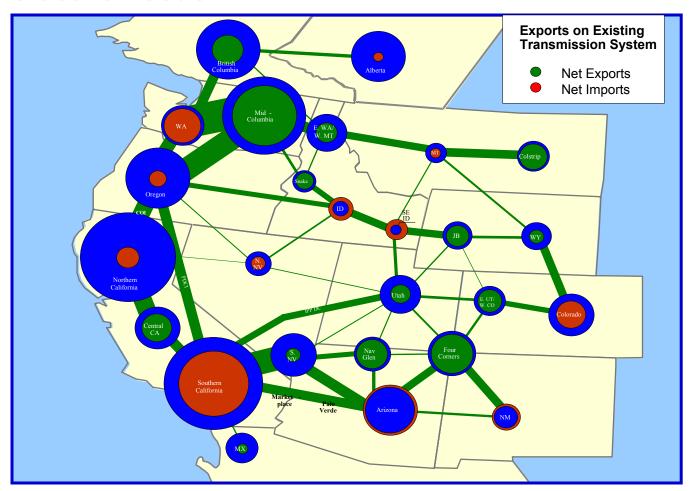
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Summer Peak	Aug-90	Jul
Peak Demand	8,589	9,3
Available Resources	8,643	9,0
Total Resources	8,932	9,
Reserve Margin at Peak (wo/transfers)	4.0%	1,
Operating Reserve Margin at Peak (wo/transfers)	0.6%	-3.
35 30 AZNMNV 25 20	<u> </u>	-



13.5%

17.3%

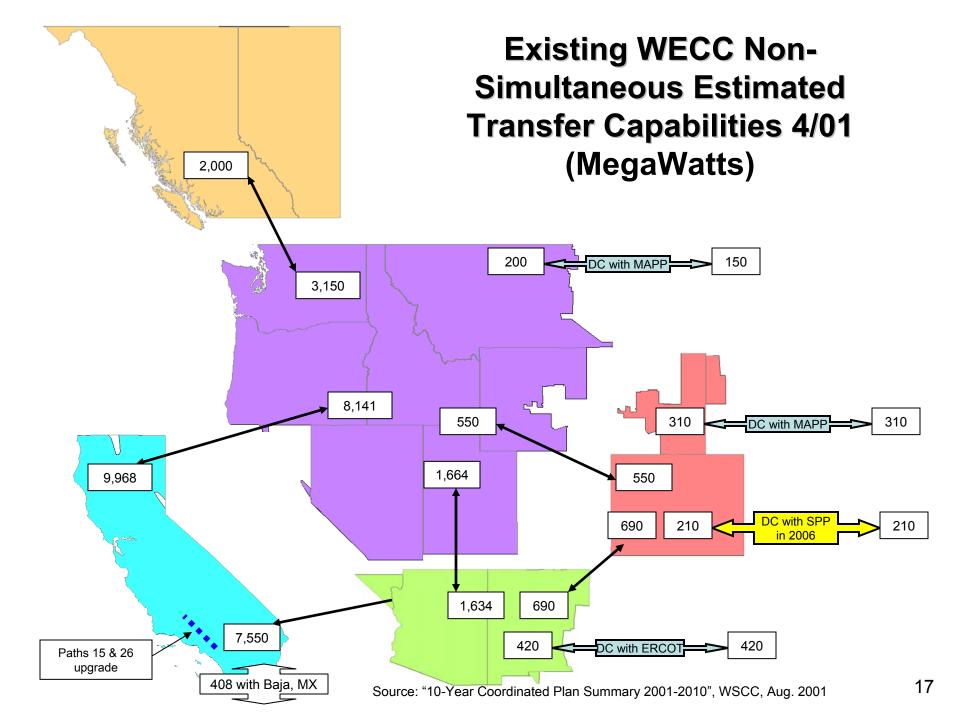
California is a net electricity importer from across the West. In the past five years California has imported up to 20% of the states electric needs.



The blue market circle indicates size of load. Width of green paths indicates the magnitude of transmission flows.

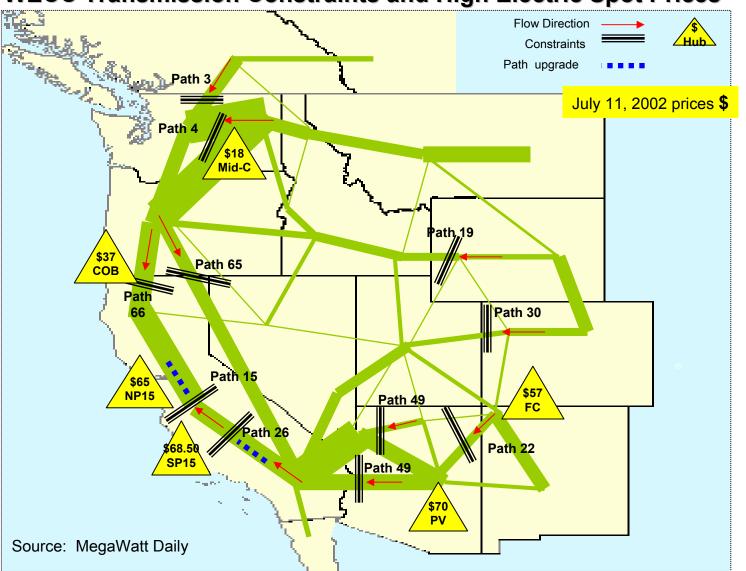
Factor 4: Electric Transmission

- Imports to California are restricted by transmission transfer capabilities.
- Despite the West's dependence on cross-region electricity flows, no significant bulk transmission has been added in recent years.
- Western generation is typically located further away from load centers, increasing line-losses and costs.
- Transmission bottlenecks constrain the efficient distribution of resources and directly affect cost differentials (i.e., CA North/South and from Baja to CA).
- Low cost production areas may be less willing to continue exporting cheap supplies.
- Transmission additions take longer to bring on-line than new generation. Siting issues across geographic regions increase costs, particularly in light of the numerous stakeholders.

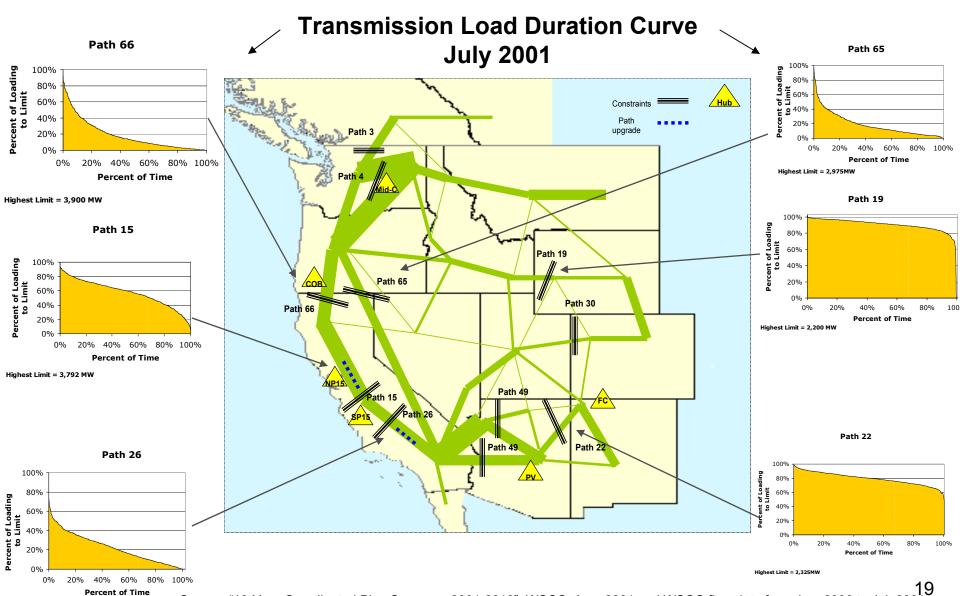


Transmission constraints limit export capabilities which result in price differentials

WECC Transmission Constraints and High Electric Spot Prices



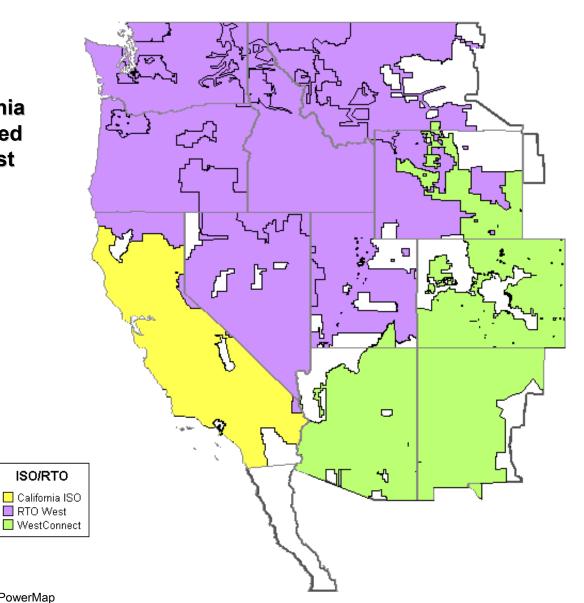
Western transmission systems are congested and need expansion



Source: "10-Year Coordinated Plan Summary 2001-2010", WSCC, Aug. 2001 and WSCC flow data from Jan. 2000 to Jul. 2001

Coordinated transmission among regions will alleviate some congestion

Existing California ISO and Proposed RTOs in the West



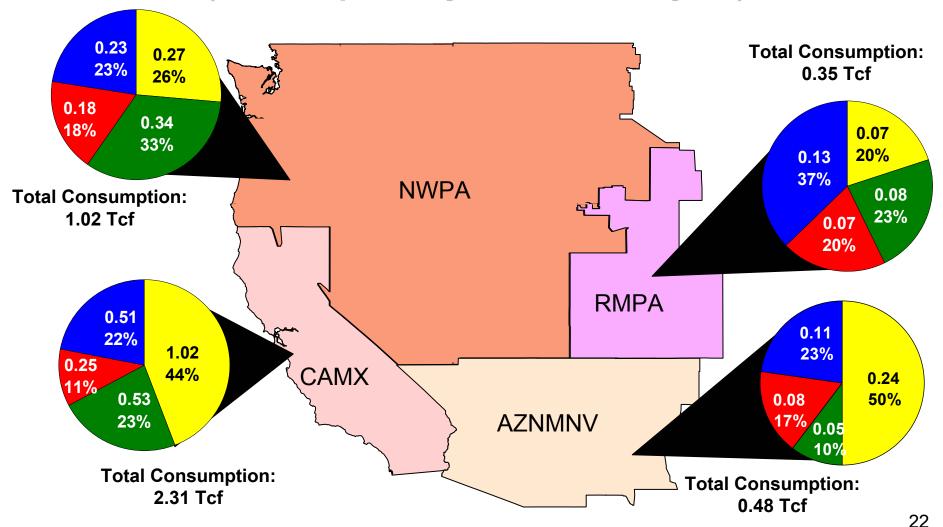
Source: RDI PowerMap

KEY FACTORS AFFECTING WESTERN NATURAL GAS MARKETS

Factor 5: Gas Demand and Electric Demand for Gas

- There is increased reliance on natural gas to fuel new power plants.
- Currently, gas demand is flat due to the lingering effects of recession and greater hydroelectric output.
- As more new high-efficiency electric generation capacity comes on line, it will displace low-efficiency older generation if the pace of new plant construction outpaces the growth of electric demand. In that event, the improved net fuel efficiency of the fossil fleet will stabilize electric demand for natural gas.
- Rapid population and economic growth in states bordering California is consuming gas that has historically been available for delivery to California.

In 2001, California was the major gas consumer in the WECC; electric generation and industrial use are, and should continue to be, the dominant consumption sectors (consumption by sector in Tcf/year)



Electric Generation

Residential
Commercial Industrial

Source: CERA

Over the next five years, new power plant demand for natural gas could increase by 30% to 140% over

current	levels
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NWPA	Gas- Fired Gens (MW)	Related Gas Demand (MMcf/d)
Existing	6000	572
2002	1936	189
2003	1876	183
2004	1288	126
2005	898	88
Total Additions	5998	586

CA	Gas-Fired Gens (MW)	Related Gas Demand (MMcf/d)
Existing	32,542	3071
2002	3048	298
2003	4776	467
2004	1110	108
2005	500	49
Total Additions	9434	922

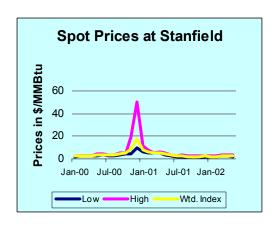
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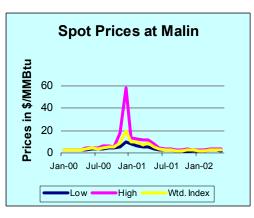
- Under Construction
- Advanced Development

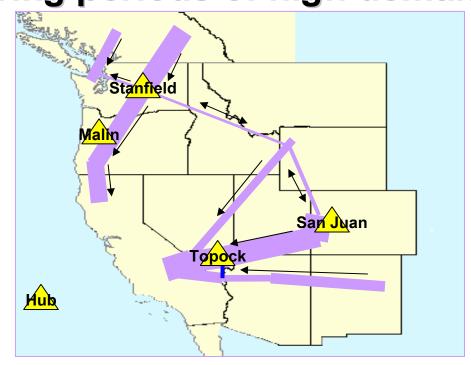
RMPA	Gas- Fired Gens (MW)	Related Gas Demand MMcf/d)
Existing	3329	267
2002	249	24
2003	480	47
2004	50	5
2005	0	0
Total Additions	779	76

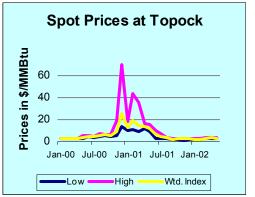
AZNMNV	Gas- Fired Gens (MW)	Related Gas Demand (MMcf/d)
Existing	9704	925
2002	2991	292
2003	7843	767
2004	1720	168
2005	600	59
Total Additions	13154	1286

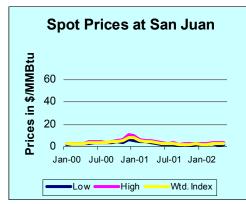
Poor pipeline gas allocation schemes and limited pipeline capacity exacerbate price volatility at market hubs during periods of high demand









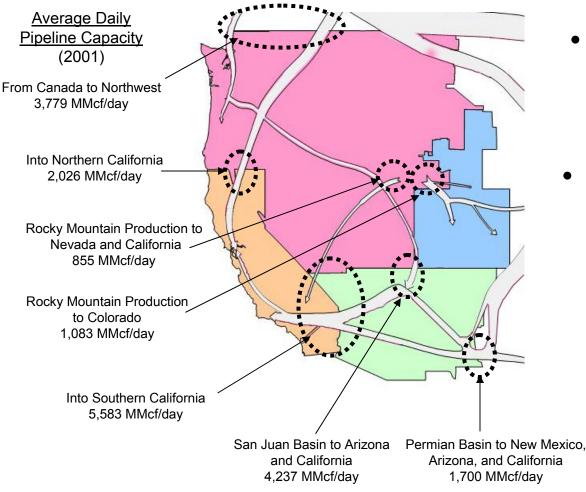


Factor 6: Gas Supply

- Inflated storage inventories reflect decreased demand in the current market and an anticipation of increased gas prices in the future.
- The Rocky Mountain production area requires more infrastructure to export developing gas supplies.
- Arizona, New Mexico, and Nevada have no meaningful gas storage capacity. Storage helps meet the peaking demand of electric generation.
- Reliance on traditional supply areas (e.g. Texas) can not meet growing demand because production rates are flattening out and local consumption is increasing. Further, U.S. eastern markets compete for Canadian exports.
- Clearly defined allocation of pipeline capacities and long-term contracting will facilitate gas supply planning.
- Load factors for California (at the border) and AZNMNV indicate that new pipeline capacity will be necessary to meet future gas demands. Electric generation will not be able to depend upon capacity release and/or interruptible gas transportation as in the past.
- Rig counts are dropping, indicating that the market is heading into a bust cycle and gas prices may rise in next few years.

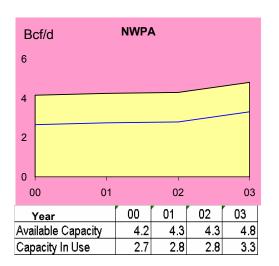
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WECC gas transportation routes and capacity levels at key locations



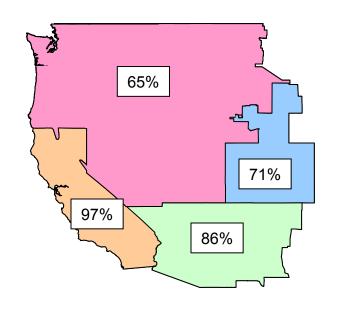
- CA imports 85%
 of its natural gas
 requirements.
- California annual gas consumption by source in 2000:
 - Canada 28%
 - Southwest 47%
 - Rocky Mountain 10%
 - In-state production 15%

Pipelines in the Southwest and up to the California state line are utilized at a level close to their coincidental peak day levels

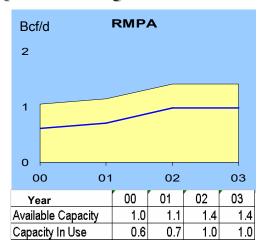


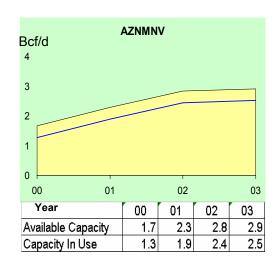
Pipeline usage* in the WECC (in Bcf/day)

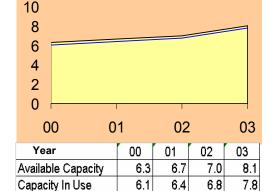
*Coincidental peak flow serves as a proxy for pipeline capacity











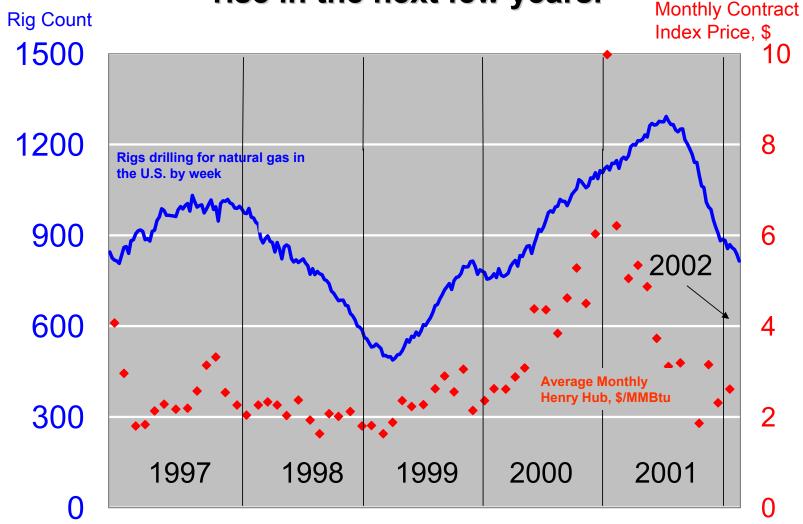
CA

Bcf/d

Reflects interstate flows at the Califonia border

Source: RDI GasDAT, FERC Form 567, FERC Applications

Rig counts are dropping, indicating that the market is heading into a bust cycle. Gas prices may rise in the next few years.



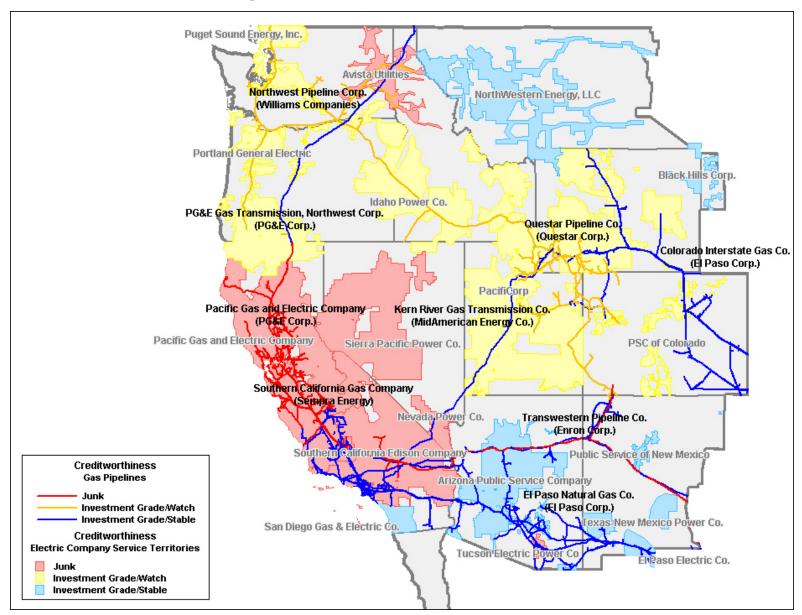
Souce: Baker Hughes; Gas Daily. Prices not adjusted for inflation.

KEY FACTOR AFFECTING WESTERN MARKET INVESTMENT & INFRASTRUCTURE

Factor 7: Creditworthiness

- Merchant generating companies are shoring up their balance sheets by cutting capital expenditures, canceling new plants, and selling assets - many hastened by recent bond rating downgrades.
- The credit crunch has impaired market liquidity and limited the pool of creditworthy counterparties for transactions.
- Low credit-worthy market participants cannot finance infrastructure expansions, assume new investment risk, and face limited participation in marketing and trading activities.
- Lack of transparent accounting policies have eroded investor confidence.

Downgraded credit ratings may impact infrastructure expansion across the West



Western Market and Infrastructure Assessment

Supporting Data

EXISTING AND ADDITIONAL NAMEPLATE CAPACITY (MWs)

WECC	2000	2001	2002	2003
Existing Nameplate Capacity	173,621	181,669	193,001	208,052
Nameplate Additions				
Operating	2,444	8,049	1,976	0
Under Construction	0	0	8,962	14,038
Under Development	0	0	393	1,013
Total Nameplate Additions	2,444	8,049	11,331	15,051
CAMX-US	2000	2001	2002	2003
Existing Nameplate Capacity	57,305	60,188	64,140	67,502
Nameplate Additions				_1
Operating	70	2,883	1,049	0
Under Construction	0	0	2,593	2,884
Under Development	0	0	310	478
Total Additions	70	2,883	3,952	3,362
CAMX-MX	2000	2001	2002	2003
Existing Nameplate Capacity	2,133	2,133	2,319	3,733
Nameplate Additions	<u> </u>	· · · · · ·	· •	
Operating	550	0	0	0
Under Construction	0	0	186	1,414
Under Development	0	0	0	0
Total Additions	550	0	186	1,414
NWPA-US	2000	2001	2002	2003
Existing Nameplate Capacity	53,798	55,903	58,040	60,026
Nameplate Additions	53,796	55,903	56,040	60,026
Operating	50	2,105	126	0
Under Construction	0	0	2,012	1,696
Under Development	0	0	0	290
Total Additions	50	2,105	2,137	1,986
rotal ridditions	,	_,	_,	.,000
NWPA-CANADA	2000	2001	2002	2003
Existing Nameplate Capacity	21,424	22,070	23,321	23,347
Nameplate Additions	<u> </u>			
Operating	674	646	237	0
Under Construction	0	0	932	26
Under Development	0	0	83	0
Total Additions	674	646	1,252	26
AZNMNV	2000	2001	2002	2003
Existing Nameplate Capacity	27,114	29,108	32,100	39,803
Nameplate Additions			,	,
Operating	632	1,994	1	0
Under Construction	0	0	2,991	7,458
Under Development	0	0	0	245
Total Additions	632	1,994	2,992	7,703
DMDA	2000	2001	2002	2003
RMPA Existing Nameplate Capacity	11,849	12,268	13,081	13,641
Nameplate Additions	11,049	420	13,061	13,041
Operating	467	420	564	0
Under Construction	0	0	249	560
Under Construction Under Development	0	0	0	0
Total Additions	467	420	813	560
Total Additions	407	420	013	360

YEARLY NET GENERATION (Mwhs)

WECC	1999		2000)	2001	
COAL	224,015,184	35.74%	234,207,514	36.03%	231,587,486	37.45%
GAS	98,350,040	15.69%	138,669,203	21.33%	156,285,844	25.27%
HYDRO	219,829,313	35.07%	186,366,847	28.67%	131,130,618	21.21%
NUCLEAR	69,873,323	11.15%	74,164,272	11.41%	69,365,726	11.22%
OTHER	14,517,647	2.32%	14,303,072	2.20%	23,955,602	3.87%
FUEL OIL	190,958	0.03%	2,411,871	0.37%	6,026,189	0.97%
TOTAL	626,776,465	100.00%	650,122,779	100.00%	618,351,465	100.00%
AZNMNV						
Coal	70,316,096	54.47%	74,996,740	54.01%	73,105,300	53.01%
Nuclear	30,415,572	23.56%	30,380,567	21.88%	28,724,072	20.83%
Gas	14,550,979	11.27%	21,471,006	15.46%	24,139,261	17.51%
Hydro	13,801,046	10.69%	11,889,968	8.56%	10,900,694	7.90%
Fuel Oil	0	0.00%	128,998	0.09%	1,029,036	0.75%
Other	1 6	0.00%	0	0.00%	270	0.00%
TOTAL	129,083,693	100.00%	138,867,279	100.00%	137,898,633	100.00%
CAMX						
Gas	67,577,801	38.56%	90,002,677	45.04%	102,099,783	49.75%
Nuclear	33,371,858	19.04%	35,175,507	17.60%	32,391,225	15.78%
Coal	25,088,582	14.32%	26,250,845	13.14%	26,093,622	12.71%
Hydro	37,111,655	21.18%	36,333,775	18.18%	22,694,700	11.06%
Other	11,967,108	6.83%	11,662,024	5.84%	20,590,098	10.03%
Fuel Oil	124,323	0.07%	388,413	0.19%	1,376,130	0.67%
TOTAL	175,241,327	100.00%	199,813,241	100.00%	205,245,558	100.00%
NWPA						
Hydro	164,711,615	61.51%	134,846,607	53.42%	94,737,050	44.15%
Coal	82,509,737	30.81%	83,776,422	33.19%	83,396,466	38.86%
Gas	11,932,151	4.46%	20,938,783	8.29%	21,547,481	10.04%
Nuc	6,085,893	2.27%	8,608,198	3.41%	8,250,429	3.84%
Other	2,550,539	0.95%	2,641,048	1.05%	3,365,234	1.57%
Fuel Oil	87	0.00%	1,634,397	0.65%	3,289,800	1.53%
TOTAL	267,790,022	100.00%	252,445,455	100.00%	214,586,460	100.00%
RMPA						
Coal	46,100,769	84.41%	49,183,507	83.37%	48,992,098	80.82%
Gas	4,289,109	7.85%	6,256,737	10.61%	8,499,319	14.02%
Hydro	4,204,997	7.70%	3,296,497	5.59%	2,798,174	4.62%
Fuel Oil	19,414	0.04%	260,063	0.44%	331,223	0.55%
Nuclear	0	0.00%	0	0.00%	0	0.00%
Other	ō	0.00%	Ō	0.00%	- i	0.00%
TOTAL	54,614,289	100.00%	58,996,804	100.00%	60,620,814	100.00%

Source: RDI PowerDat Jun 2002

Gas Demand (in	n MMcf/day	and by % o	of WECC To	otal)				
	200	00	20	01				
CAMX	2,261,092	57.4%	2,306,365	55.5%	-			
NWPA	909,197	23.1%	1,020,165	24.5%				
AZNMNV	461,362	11.7%	479,479	11.5%	_			
RMPA	304,758	7.7%	349,938	8.4%	_			
WECC TOTAL	3,936,409	100.0%	4,155,947	100.0%				
Gas Needs for	New Genera	tion (in MN	/Icf/day and	l by % of W	ECC Total	1)		
			20	001	2	2002e	2	003e
CAMX			1,020	63.5%	411	43.9%	409	30.4%
NWPA			272	16.9%	194	20.7%	156	11.6%
AZNMNV			244	15.2%	274	29.3%	734	54.6%
RMPA			70	4.4%	57	6.1%	46	3.4%
WECC TOTAL			1,606	100.0%	936	100.0%	1,345	100.0%
Spot Gas Prices (in \$/Mcf)								
	200	0	20	01		2002	2	003e
	Low	\$69.92 2/12/00; \$2.11 01/06/00	High Topock Low San Juan	\$43 02/15/01; \$1.20 09/25/01	High Topock Low San Juan	\$3.65 04/03/02; \$0.81 04/10/02	High Topock Low Stanfield	\$4.65 01/03/02; \$3.65 05/03/03

Pipeline Usage in the WECC (in Bcf/day)				
	2000	2001	2002	2003
CAMX				
Non-Coincidental Peak	7.2	7.6	7.9	9.0
Coincidental Peak	6.3	6.7	7.0	8.1
Average Flow	6.1	6.4	6.8	7.8
NWPA				
Non-Coincidental Peak	6.2	6.3	6.3	6.8
Coincidental Peak	4.2	4.3	4.3	4.8
Average Flow	2.7	2.8	2.8	3.3
AZNMNV	•			
Non-Coincidental Peak	1.9	2.5	3.1	3.1
Coincidental Peak	1.7	2.3	2.8	2.9
Average Flow	1.3	1.9	2.4	2.5
RMPA				
Non-Coincidental Peak	2.1	2.2	2.4	2.4
Coincidental Peak	1.0	1.1	1.4	1.4
Average Flow	0.6	0.7	1.0	1.0

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Gas Supply				
	2000	2001	2002	2003

As of 01/01/01, EIA estimates that the Western states have approximately 72.2 Bcf of proven reserves. At the 2000 annual production rate of 3.9 Bcf, there is approximately 18 years of production life. In addition, the Barlow study indicates that the Central Rocky Mountain region has insufficient take-away capacity relative to remaining (proven + undiscovered) gas supply of 171.8 Tcf. The study indicates that the region has highest remaining life of all US producing regions of approximately 95 years. In addition, Western producing states active rig counts for June 2002 are down 37% from the June 2001 reported figures.

FERC Actions

Western Pipeline Development

In Service '01/'02 - 1.2 Bcf/day

Under Construction – 1.6 Bcf/day

Pending – 1.4 Bcf/day

Creditworthiness of Major Electric Buyers Participating In Western Markets *

Electric Companies	Current Rating/Credit Watch	Previous Credit Rating
Junk Bond Ratings:		
Avista Corp.	BB+/Negative/ (4/29/02)	BBB-/ (8/2/01)
So. California Edison Co.	BB/Developing/ (3/5/02)	D/D (1/16/01)
Tucson Electric Power Co.	BB/Stable/ (6/25/02)	BB-/ (6/4/99)
Nevada Power Co.	B+/Watch Neg/ (6/27/02)	B+/B (4/23/02)
Sierra Pacific Power Co.	B+/Watch Neg/ (4/23/02)	BB/ (3/29/02)
Pacific Gas & Electric Co.	D// (4/29/02)	CC/D (1/19/01)
Ratings Above Junk Bond:		
El Paso Electric Co.	BBB-/Stable/ (4/29/99)	BB+/(12/8/97)
Public Svc. Co. Of NM	BBB-/Stable/ (4/29/02)	BBB-/ (8/26/99)
Puget Sound Pwr & Light	BBB-/Watch Dev/ (3/20/02)	BBB-/ (10/30/01)
TX-New Mexico Power Co.	BBB-/Stable/ (4/29/02)	BBB-/ (8/26/98)
Black Hills Power Inc.	BBB/Stable/ (4/29/02)	BBB/Stable/ (2/15/02)
Montana Power Co.**	BBB/Stable/ (4/29/02)	A- (10/97)
Pub. Svc. Co. Of Colorado	BBB/Negative/A-3 (6/24/02)	A-/A-2 (4/14/98)
Arizona Public Service Co.	BBB+/Stable/A-2 (4/29/02)	BBB/A-2 (3/29/02)
Portland Gen. Electric	BBB+/Watch Neg/A-2 (4/29/02)	A/A-1 (11/9/99)
Northwestern Energy, LLC	BBB+/Stable/A-2 (11/14/01)	BBB+/A-2 (11/2/98)
Idaho Power Co.	A-/Positive/A-2 (6/27/02)	A-/A-2(3/25/02)
PacifiCorp.	A-/Negative/A-2 (4/29/02)	A-/A-1 (11/9/01)
San Diego Gas & Elec.	A+/Stable/A-1 (4/17/02)	AA-/A-1+ (1/27/99)

^{*} Ratings from Standard and Poor's ratingsdirect.com.
** Rating from Standard and Poor's Bond Guide, dated 5/02.

Creditworthiness of Major Electric Sellers Participating In Western Markets *

Electric Companies	Current Rating/Credit Watch	Previous Credit Rating
Junk Bonds:		
AES Corp.	BB-/Negative (6/6/02)	BB/Watch Neg (2/15/02)
Calpine Corp.	BB/Stable/ (3/25/02)	BB+/ (12/8/1999)
Ratings Above Junk Bonds:		
Mirant Corp.	BBB-/Stable/A-3 (7/01/02)	BBB/A-2 (3/26/99)
Dynegy, Inc.	BBB-/Watch Neg/A-3 (6/25/02)	BBB/Watch Neg/A-3 (5/8/02)
El Paso Electric Co.	BBB-/Stable/ (4/29/02)	BB+/(12/8/97)
PPL Corp.	BBB/Stable/ (5/29/02)	BBB+/(4/25/02)
Xcel Energy, Inc.	BBB/Negative/A-3 (6/24/02)	A-/Watch Neg/A-2 (2/11/02)
Reliant Energy, Inc.	BBB+/Stable/A-2 (6/3/02)	BBB+/A-2 (4/20/00)
TransAlta Corp.	BBB+/Stable (6/21/02)	A-/ (9/22/00)
Duke Energy Corp.	A+/Stable/A-1 (1/9/02)	A+/A-1(4/19/99)

^{*} Ratings from Standard and Poor's ratingsdirect.com.

Creditworthiness of Major Gas Pipeline Companies & Holding Companies Participating In Western Markets Ac Of 6/48/02 - Page 4 of 2 *

AS Of 6/18/02 - F	age 1 of 2 *

Pipeline Companies	Current Rating/Credit Watch	Previous Credit Rating
Enron Corp.	D// (12/3/01)	CC/C (11/30/01)
Transwestern P/LCo.	CC/Watch Dev/ (2/05/02)	CC/ (11/30/01)
PG&E Corp.	D/D (1/19/01)	CC/C (1/16/01)
Pacific Gas & Electric Co.	D//D (2/11/02)	CC/D (1/19/01)
PG&E Gas Trans-NW	A-/Stable/A-2 (2/11/02)	A-/A-2 (9/19/00)
Sierra Pacific Power Co.	B+/Watch Neg/ (6/27/02)	B+/B (4/23/02)
TransCanada P/Ls Ltd. Tuscarora Gas Trans. Co.**	A-/Stable/ (4/5/02)	A-/ (1/26/98)
MidAmerican Energy Co.	A/Stable/A-1 (2/15/02)	A-/A-1 (2/8/02)
Kern River Gas Trans. Co.	A-/Stable/ (3/8/02)	A-/ (8/21/01)
Questar Corp.	A/Negative/A-1 (6/20/02)	A/Negative/A (8/13/98)
Questar Pipeline Co.	A+/Negative/ (6/20/02)	A+/Negative/ (10/16/01)
Questar So. Trails P/L**		
Sempra Energy	A-/Stable/A-2 (4/17/02)	A/A-1 (1/4/01)
Southern CA Gas Co.	A+/Stable/A-1 (4/17/02)	AA-/A-1+ (7/2/01)

Creditworthiness of Major Gas Pipeline Companies & Holding Companies Participating In Western Markets As Of 6/18/02 - Page 2 of 2 *

Pipeline Companies	Current Rating/Credit Watch	Previous Credit Rating
El Paso Corp.	BBB+/Stable/A-2 (6/18/02)	BBB+/ (9/23/99)
Colorado Interstate Gas Co.	BBB+/Stable/ (1/22/02)	BBB/ (8/19/98)
El Paso Natural Gas Co. Wyoming Interstate Co. Ltd. **	BBB+/Stable/A-2 (3/5/02)	BBB/A-2 (3/15/99)
Williams Companies	BBB/Negative/A-3 (6/12/02)	BBB+ (5/28/02)
NW Pipeline Corp.	BBB/Negative/ (5/28/02)	BBB+/ (10/16/01)
Southwest Gas Corp. Paiute Pipeline Co. **	BBB-/Negative/ (5/1/02)	BBB-/ (12/15/98)

^{*} Ratings from Standard and Poor's ratingsdirect.com.

^{**} Ratings unavailable.

Credit Rating Categories

Investment Grade Ratings:

AAA Extremely strong capacity to meet commitments.

AA Very strong capacity to meet commitments; small degree of difference from AAA.

A Strong capacity to meet commitments; somewhat more susceptible to adverse effects of change in circumstances and economic conditions.

Adequate capacity to meet financial commitments; adverse economic conditions or changing circumstances more likely to lead to weakened capacity to meet financial commitments.

Junk Bond Ratings:

Less vulnerable in the near term; faces major ongoing uncertainties and exposure to adverse business, financial or economic conditions will impair the insurer's capacity or willingness to meet financial obligations.

More vulnerable; dependent upon favorable business, economic and financial conditions to meet financial commitments

CCC Currently vulnerable; dependent upon favorable business, economic and financial conditions to meet financial commitments.

CC Highly vulnerable.

Highly vulnerable to nonpayment; may be used when a bankruptcy petition has been filed or similar action taken but payments on the obligation are continuing.

D Failed to pay one or more of its financial obligators.

Plus/Minus: Denotes standing within major rating categories. Watch / Negative: Rating under a watch for possible downgrade.